A POWER SYSTEM TO TRANSFER POWER BETWEEN A PLURALITY OF POWER SOURCES

Abstract

A power system used for transferring power between a plurality of power sources is provided. A power system according to the present invention is comprised of a plurality of power sources, wherein each source includes a pair of terminals. The power system is further comprised of a power converter, including a pair of switches for each one of the plurality of power sources. Each of these switches are connected to the respective pairs of terminals for each source. Each switch further includes an associated diode, and each switch pair includes a common node. The power converter further includes a plurality of inductors numbering one less than the number of power sources, wherein each inductor is connected across two of the common nodes. The power converter further includes a control unit configured to actuate the switches in accordance with, and to carry out, one of a plurality of modes of operation.

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